# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

***Name of the work:*** **Estimate for Construction of Culvert, CC Drain and Cement Concrete Patch work in BB Nagara in Ward No. 08, Kodigehalli Sub Division.**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | **Estimate Cost:** | | | | | **1000000.00** | |
| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
| 1 | KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 152 / Item No. 19.1 / PWD SR 2013-14** | Cum | | | | | | | |
| | **For Drains Glass Factory Road** | | 1 | 65.00 | 1.00 | 0.75 | 48.75 | | |
| | | | 1 | 65.00 | 0.60 | 0.35 | 13.65 | | |
| | **For Earth Work** | | 1 | 65.00 | 4.80 | 0.20 | 62.00 | | |
| | | | | | | | **124.40** | 65.88 | **8195.00** |
| | Basic Rate | 61.00 | | | | | | | |
| | Area Weightage @8% | 4.88 | | | | | | | |
| | **Total** | **65.88** | | | | | | | |
| 2 | KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, **Page No. 5 / Item No. 2.3 / PWD SR 2013-14** | Cum | | | | | | | |
| | | | 1 | 8.50 | 1.35 | 1.20 | 13.77 | | |
| | | | | | | | **13.77** | 151.74 | **2089.00** |
| | Basic Rate | 140.50 | | | | | | | |
| | Area Weightage @8% | 11.24 | | | | | | | |
| | **Total** | **151.74** | | | | | | | |
| 3 | KSRRB M100-1: Loading and Unloading of stone boulder / stone aggregates / sand / kanker / moorum, KSRRB M100-1 : placing tipper at loading point, loading with front and loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH chapter 1, **Page No. 117/ Item No. 17.1 / PWD SR 2013-14** | Cum | | | | | | | |
| | | | Vide Item No.2 | | | | **138.17** | 78.24 | **10810.00** |
| | Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12 | 10.24 | | | | | | | |
| | Add loading and unloading Vide item no.17.1 P.no.141 | 62.20 | | | | | | | |
| | | **72.44** | | | | | | | |
| | Area Weightage @ 8% | 5.80 | | | | | | | |
| | **Total** | **78.24** | | | | | | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 4 | KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2013-14** | Cum | | | | | | | |
| | **For Drains Glass Factory Road** | | 1 | 65.00 | 1.00 | 0.15 | 9.75 | | |
| | **For Earth Work** | | 1 | 65.00 | 4.80 | 0.15 | 47.06 | | |
| | | | | | | | **56.81** | 4290.84 | **243763.00** |
| | Basic Rate | 3973.00 | | | | | | | |
| | Area Weightage @ 8% | 317.84 | | | | | | | |
| | **Total** | **4290.84** | | | | | | | |
| 5 | KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13 / Item No. 4.11 PWD SR - 2013-14** | Cum | | | | | | | |
| | For Drains Glass Factory Road Bottom | | 1 | 65.00 | 0.90 | 0.10 | 5.85 | | |
| | Side Wall | | 2 | 65.00 | 0.15 | 0.75 | 14.63 | | |
| | Culvert | | 1 | 8.50 | 1.20 | 0.20 | 2.04 | | |
| | | | 2 | 8.50 | 0.20 | 0.90 | 3.06 | | |
| | | | 1 | 8.50 | 1.20 | 0.23 | 2.35 | | |
| | | | | | | | **27.92** | 5639.76 | **157468.00** |
| | Basic Rate | 5222.00 | | | | | | | |
| | Area Weightage @ 8% | 417.76 | | | | | | | |
| | **Total** | **5639.76** | | | | | | | |
| 6 | KSRB 4.9.2: Providing **TMT steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19 / Item No. 4.46.2 PWD SR 2013-14** | Qntl | | | | | | | |
| | | | 0.75 | 27.92 | | | **20.94** | 7380.72 | **154558.00** |
| | Basic Rate | 6834.00 | | | | | | | |
| | Area Weightage 8% | 546.72 | | | | | | | |
| | Total | **7380.72** | | | | | | | |



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| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 7 | KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14** | Sqm | | | | | | | |
| | CC Drain | | 4 | 65.00 | | 0.75 | 195.00 | | |
| | Culvert | | 4 | 8.50 | | 0.90 | 30.60 | | |
| | | | 1 | 8.50 | 1.20 | | 10.20 | | |
| | | | 2 | 8.50 | | 0.23 | 3.91 | | |
| | | | 2 | 1.20 | | 0.23 | 0.55 | | |
| | | | | | | | **240.26** | 271.08 | **65130.00** |
| | Basic Rate | 251.00 | | | | | | | |
| | Area Weightage @ 8% | 20.08 | | | | | | | |
| | **Total** | **271.08** | | | | | | | |
| | RCC Precast Covering Slab for Drain (10 Cm Thick) | Sqm | | | | | | | |
| | | | 2 | 65.00 | 0.90 | | 117.00 | | |
| | Rate Approved by BBMP | | | | | | **117.00** | 1245.00 | **145665.00** |
| 8 | Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 19 / Item No. 4.48.1/ PWD SR 2013-14** | Cum | | | | | | | |
| | **For Earth Work Glass Factory Road** | | 1 | 65.00 | 4.80 | 0.10 | 31.00 | | |
| | | | | | | | **31.00** | 6464.88 | **200411.00** |
| | Basic Rate | 5986.00 | | | | | | | |
| | Area Weightage @ 8% | 478.88 | | | | | | | |
| | **Total** | **6464.88** | | | | | | | |
| 9 | Sub Total | | | | | | | | **988089.00** |
| 10 | For Third Party QC Charges @ 1% on Estimate Cost | | | | | | | | **9881.00** |
| 11 | Miscellaneous and other Charges | L/S | | | | | | | **2030.00** |
| | | | | | | | | **Total** | **1000000.00** |

**(Rs. Ten Lakhs Only)**

**CERTIFICATE:**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division



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Technical Sanction for Rs. 10.00 lakhs

Ten lakhs only

P-1771

Registered as EE( ) No.

Subject to conditions contained in

No. EE/BTP/131/13-14 Dt. 30/10/13

ASSE

EE (BTP)

30/10/2013

ADMINISTRATIVELY SANCTIONED FOR Rs. 10.00 lakhs

Rupees Ten lakhs only

Under P-1771

Registered as EE( ) No. 39

Subject to conditions contained in

enclosed memo No. JC(yel)/345/13-14/91

Dt. 30/10/13 Estimate

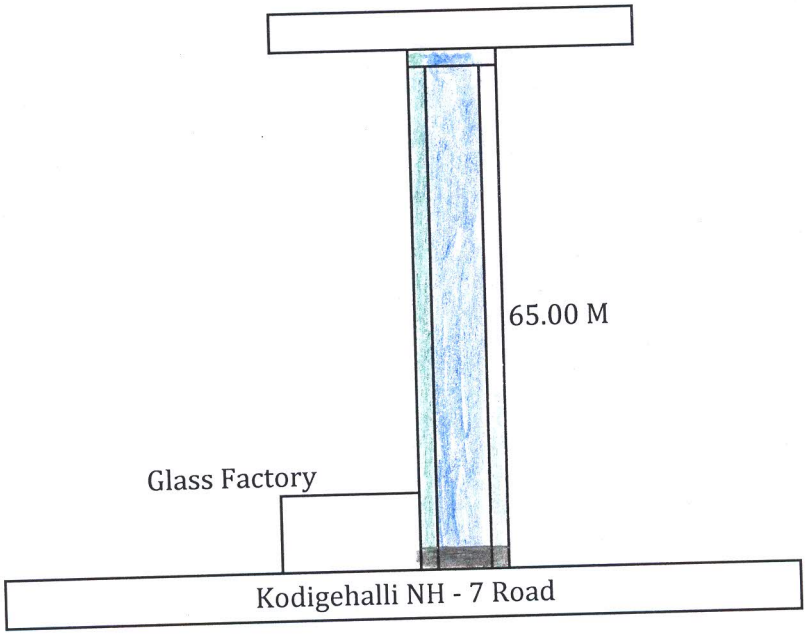
Dated

30/10/13

Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92

ASSE

Name of Work: Construction of Culvert, CC Drain and Cement Concrete Patch work in BB Nagara in Ward No. 08, Kodigehalli Sub Division.




CC Road

CC Drain

Culvert

Assistant Engineer
Ward No. 08

Assistant Exective Engineer
Kodigehalli Sub Division

Assistant Engineer,
Kodigehalli Sub Division,
Yelahanka, B.P.,